

EDUCATION

University of Panamá, Panamá: B.S., Bryology Major, March 2003

Universidad de Costa Rica, Costa Rica & Organization for Tropical Studies, Costa Rica; Feb. 2003

Southern Illinois University (SIUC), Carbondale, USA: M.Sc., Bryophyte ultrastructure, Dec. 2005

University of Connecticut, Storrs, USA: Ph.D., candidate, Ecology and Evolutionary Biology, Jan. 2006-present

APPOINTMENTS

Teaching assistant: Biology of Bryophytes and Lichens (2009); Introductory Biology/Botany, 2006-2008)
Plant Diversity-SIUC (Fall 2004); Neotropical Environments-McGill University (2001)

Research Assistant: *Renzaglia Lab*- SIUC, 2003-2005;

Salazar Allen Lab- Smithsonian Tropical Research Institute (STRI), Panamá, 2001-2003.

Research intern & assistant

Birmingham Lab/Salazar Allen Lab-STRI, Panamá. 2002

Technical assistant, taxonomical and curatorial Work

University of Panamá, National Herbarium, Panamá. 1999- 2000

PUBLICATIONS (8)

Renzaglia, K.S., **J.C. Villarreal** & R.J. Duff. 2009. New insights into morphology, anatomy and systematic of hornworts. In B. Goffinet & A.J. Shaw (eds.), *Bryophyte Biology II*, pp. 139-171.

Villarreal, J.C., G. Hässel de Menéndez & N. Salazar Allen. 2007. *Nothoceros superbis* (Dendrocerotaceae), a new species of hornwort from the Neotropics. *The Bryologist* 110: 279-285.

Duff, R.J., **J.C. Villarreal**, D.C. Cargill & K.S. Renzaglia. 2007. Progress and challenges toward developing a phylogeny and classification of the hornworts. *The Bryologist* 110: 214-243.

Duff, R. J., D.C. Cargill, **J.C. Villarreal**, and K.S. Renzaglia. 2004. Phylogenetic relationships of the hornworts based on *rbcL* sequence data: novel relationships and new insights. *Monog. Syst. Bot. Missouri Bot. Gard.* 98: 41-58.

Villarreal, J.C. & K.S. Renzaglia. 2006. Sporophyte structure in the neotropical hornwort *Phaeomegaceros fimbriatus*: implications for phylogeny, taxonomy and character evolution. *Int. J. Plant Sc.* 167: 413-427.

Villarreal, J.C. & K.S. Renzaglia. 2006. Structure and development of *Nostoc* strands in *Leiosporoceros dussii* (Anthocerotophyta): a novel symbiosis in land plants. *Am. J. Bot.* 93: 693-705 (**Cover**).

Dauphin, G., T. Pócs, **J.C. Villarreal** & N. Salazar Allen. 2006. Nuevos Registros de Hepáticas y Anthocerotófitas para Panamá. *Tropical Bryology* 27: 73-85.

Cargill, D.C., R.J. Duff, **J.C. Villarreal** & K.S. Renzaglia. 2005. Generic concepts in hornworts: historical review, contemporary insights and future directions. *Austr. Syst. Bot.* 18: 7-16.

Reviewer: *The Bryologist*; *Cryptogamie*, *Bryologie*; *Fieldiana*; *Journal of Experimental Botany*; *Cambridge University Press*; *Inaugural Member of Editorial Board for Acta Biologica Panamense*.

Field work: *Costa Rica, Dominican Republic, Mexico, Panamá, Southern Appalachians, Venezuela*.

AWARDS

The Sullivant award (the best paper published in *The Bryologist* in 2007) from the *American Bryological and Lichenological Society*, awarded to Duff *et al.* (2007)

RESEARCH GRANTS

Doctoral Dissertation Improvement Grant, NSF (2009, \$ 9594; recommended for funding); Southern Appalachian Botanical Society (2008; \$300); Ronald Bamford Endowment Fund Research Grant, EEB (2006-2008, \$ 3500); International Association of Plant Taxonomists (2008; 1000); International Association of Bryologists (2007; \$ 1000); Botanical Society of America (2004; \$500); Andrew W. Mellon Fellowship, STRI (2002; \$3000).